# EFFECTIVE VOTING

# AN ARTICLE

PREFERENTIAL VOTING AND PROPORTIONAL REPRESENTATION

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#### INTRODUCTION.

Voting is the very basis of our governments, Federal, State, and If, therefore, the voting systems generally used throughut the country hitherto can be shown to be gravely defective and be easily replaceable by correct systems, we have at once the xplanation of some of the worst political evils from which we suffer nd the key to political reform that is truly fundamental.

PRIMARIES, PARTY NAMES, AND THE ADEQUATE BALLOT.

The demand for primary elections is due entirely to two features of ur final elections as usually conducted hitherto. The first of these eatures is allowing party names on the official ballots. The second restricting the voter to the expression on the ballot of so small a art of his will that a preliminary election is serviceable in cutting out ne weaker candidates of any party or group before the final election. f all party names and emblems were kept off the ballot, primaries ould not be needed to determine whether, for example, a Taft or a conserved that the better right to use the name Republican on the fficial ballot; both could be admitted to the ballot, unassociated ith any party name, and the struggle between them could be settled a its merits by the voters at the election itself. And if every voter ere allowed to express his will on the ballot at the election itself illy instead of limitedly, adequately instead of inadequately, priaries would not be needed to cut down the number of candidates efore the final election.

The only adequate ballot, of course, is what is usually called the preferential" ballot, that is, the ballot that permits the voter to cpress his will so fully that it can be made effective by the counting ficials no matter what circumstances of grouping may be found to ave arisen among the voters. If, when you sent a boy to the newsand for a paper, you were restricted to naming only one, you might eve to go without any whenever the boy found, on reaching the and, that the particular paper named was sold out. If, however, ou could name several papers in the order of your preference, you ould be almost sure of getting one, and that the one you liked best nong those it was possible to get. The boy in this case, of course, kes the place of the chief election officials in the case of an election; id the restriction to the naming of but one paper takes the place of similar restriction on the inadequate ballot we have been satisfied ith hitherto.

Such a ballot is a weak and unstable basis for democracy to rest upon. Consider the last (1913) State election in Massachusetts. Mr. Walsh, who was elected governor-

received only 183,267 votes, or less than 40 per cent of the total vote; and it may well have been that nearly all of the other 60 per cent preferred any one of the other candidates to Mr. Walsh. In three of the last four Boston city elections the same can be said of the successful candidate for mayor. In the autumn of 1909 a mayor of Salem Mass., was elected by 24 per cent of the voters, and in the opinion of a prominent Salem lawyer each and every one of the five unsuccessful candidates was, by a strong majority, preferred to the winner. The splitting of the vote which causes this injustice is frequently brought about by design tice is frequently brought about by design.

Another defect of the inadequate or non-preferential ballot is the discouragemen which the prospect of a split vote offers to candidacy. A strong and good man think of running. A weaker man who has some following, perhaps very small, enters the lists against another candidate not desired by the supporters of either of the two first mentioned. The strong man refuses to run unless the weaker man mentioned will withdraw. The latter refuses to withdraw, and thus uses the danger of splitting the vote as an effective ladder to self-advancement. This often occurs without reaching

public knowledge.

Another defect is the frequent necessity voters are under of voting, not for the can didate they prefer but for the one who, in their judgment, is more available. In the next to last Boston mayoralty election many thousands who really desired to replace Mayor Hibbard did not retain for him.

elect Mayor Hibbard did not vote for him.

Another defect is the discouragement to voting and registering that is brought about through the citizen's knowledge that the man really desired by him is not a candidate, or his belief that, though a candidate, he cannot be elected. The knowledge or the feeling that something is wrong with the system, combined, perhaps, with the other demands upon his time, keeps him from registering or from voting. In mayonalty elections in large cities the actual vote cast probably does not average more that the registered voters or 60 per cent of those qualified to register. 70 per cent of the registered voters or 60 per cent of those qualified to register.

It is clear, therefore, that our usual plurality system, first, may not elect the cand date desired by a majority of those who vote; secondly, may discourage desirable candidacy; thirdly, may induce voters to express other than their real opinions; an fourthly, discourages many from registering and voting.

In connection with all our voting, then, the ballots should be add quate or preferential ballots; nominations should be made by pet tion; party names and emblems should be excluded from the ballo party conventions, though freely permitted, should not be officiall supervised or recognized; and primary elections should be discor tinued.

We have now to consider—

# THE TWO OBJECTS OF VOTING.

There are two distinct objects to be carried out by voting. No only has neither of these objects been carried out by the voting sy tems we have generally used hitherto with even an approximatic to correctness, but the distinction itself has not been clearly unde stood.

One of the objects to be carried out by voting is to make decision either between policies (measures) or between candidates for administrative positions. To carry out this object what is obvious required by the fundamental principles of democracy is majority voting, that is, a system that will range the majority of the vote concerned against the minority.

The other object to be carried out by voting is to make up a bo fit to make decisions—subject to the operation of the initiative as the referendum where they are in force—on behalf of all the voters,

<sup>&</sup>lt;sup>1</sup> The quotations in this paper not otherwise credited are by William Hoag, Esq., of Boston, a for secretary of the American Proportional Representation League.

ther words, to make up a deliberative or representative body. Now, hough the principles of democracy require that the decisions made in uch a body should be made by majority voting, they by no means equire that the body itself should be made up by majority voting. n making up such a body, indeed—as has been recognized universally, hough until recently only very confusedly—each member's right a seat should rest on his being the choice not of a majority of all he voters represented by the body but merely of such part of them s we call a "constituency." In other words, what is wanted, when he object in view is the making up of a representative body, is

imply a condensing system.

This distinction between the two objects of voting is the prime ecret of fundamental electoral reform, transcending in importance ven the adoption for all voting of the preferential or adequate ballot. t reveals to us in what cases rational reform means replacing our resent plurality system by a majority system without primaries nd in what cases it means replacing our present plurality-and-primary 7stem, as applied to the election of representatives by wards or ther geographical constituencies, not by a majority-of-a-geographal-constituency system but by a unanimous-constituency, conensing, or "proportional" system.

Plurality-and-primary voting should be replaced by majority referential voting without primaries wherever, as I have said, a ecision is to be made. That means wherever measures are voted in deliberative bodies, wherever measures are voted on directly the polls, and wherever administrative officials are selected or moved by deliberative bodies or are elected or recalled at the

olls.1

Wherever, however, the object of an election is to make up a body to make decisions and choose adminstrative officials on behalf all, our present system should be replaced, as explained in Part II, y a rational unanimous-constituency or condensing system, in hich a form of adequate or preferential ballot is used but in which ot only primaries and pluralities but even majorities have no place hatever.

### PART I.

### AJORITY PREFERENTIAL VOTING (COMMONLY CALLED "PREF-ERENTIAL VOTING.")

Ballots that allow the voter to express his will adequately with a ew to revealing how the majority is ranged against the minority ive usually been called simply "preferential ballots," and the stems of applying them simply "preferential voting" systems. hose names, however, must be somewhat restricted if they are not be ambiguous, for, as has been said above, the adequate or preferatial ballot can and should be used not only to reveal the will of a ajority, but to carry out the other object of voting, namely to ect a representative body by a process of condensation through the rmation of unanimous constituencies. It is best, therefore, when e mean to refer to the adequate ballot as applied only to revealing e will of the majority, to add to the words "preferential ballot"

But see passages in Part II, where it is suggested that such officials should not be elected at the polls

and "preferential voting" the word majority, so that the names be come majority preferential ballot and majority preferential voting.

In one form or another majority preferential voting is in use fo final elections in Queensland, Western Australia, Grand Junction Colo., Spokane, Denver, Cleveland, and elsewhere, and for primary elections in Wisconsin, Minnesota, North Dakota, and elsewhere Unfortunately these systems are applied in the places mentioned not only to the election of administrative officials, where majority voting is desirable, but to the election of representative bodies, where majority voting, as I have said and as I hope to make quite clear in Part II, is utterly out of place.

We may now consider the methods by which majority preferential voting is carried out in these places, and that by which it ought to

be carried out.

### THE WARE SYSTEM.

Under this system, which was first proposed for actual use be Prof. W. R. Ware, of Harvard University, the voter is allowed to indicate his preferences among the candidates—as many or as fer as he pleases—by putting the figure 1 opposite the name of his first choice, the figure 2 opposite the name of his second choice, and so or

The first count is only of the first-choice votes. If no candidate has a majority, the lowest candidate is excluded and his votes only are scrutinized again and added to the votes of the other candidates as the preferences indicate. The candidates are the successively excluded until only two are left, of whom the higher will have a majority vote [as between the two left], and be elected.

This system, which in Great Britain is called the "alternativ vote," is known in Western Australia, where it is used in its conplete form, and in Queensland, where it is used in truncated form, the "preferential vote." That it is preferable to the "second balot" used in Austria-Hungary, France, Germany, Italy, Norwa and other European countries, is generally conceded by those with compare the two. It does at a single election more than the seconballot system does in two, and does it better. That it is preferable to the primary and plurality system still common in this countries goes without saying. It is not, however, a perfect majority system For, like the second ballot system, on which it is so obviously an in provement, and like our own double election system, on which it is still greater improvement, it may drop out at some stage of the whole process of election a candidate who is really preferred by clear majority to any other candidate in the field taken singly.

The preferential voting system used in the primary elections Wisconsin and Minnesota is the Ware system modified (1) by the restriction of the voter to the expression of but two preferences from any office, (2) by provision for a first-choice and a second-choice coumn, instead of the numerals 1 and 2, for the indication of preferences, and (3) by the adaptation of the rules for counting the votes the provision that a voter may express only two preferences. The

Note that I do not say here majority voting at the polls, but simply "majority voting;" the faster move toward having all the chief administrative officials in populous communities elected, or rather lected, by majority vote of the representative body, instead of at the polls, the sooner we shall have highest efficiency in the administration of public affairs; but, wherever the election of such officials carried out, it should be carried out by majority voting.

as devised by Daniel S. Remsen, Esq., of New York City, with ne twofold intention of making possible the completion of the punt without bringing all the ballots or a full transcript record of tem together from the voting precincts, as must be done under the implete Ware system, and of simplifying the marking of the ballot y the voter himself. The elimination of the necessity of bringing ogether either ballots or a full transcript record of the preferences tarked on each is a matter of some practical importance at the resent time when the voters of this country generally do not alize their need of effective voting keenly enough to be willing to be to much bother or expense to get it. That the Remsen system opreciably simplifies the voting itself, however, I question. Certinly high officials in Tasmania, Western Australia, and elsewhere by flatly that the indication of preferences by the figures 1, 2, etc., is found to be easy by the voters of those countries. For tample, Mr. E. J. Stenberg, chief electoral officer of Western Ausalia, wrote on this point as follows in his official report on the ection of 1908, the first one held there under the preferential stem:

Speaking generally in regard to the novel method of voting, it would seem that c fears expressed as to the likelihood of a much increased "informal vote list" e., an increased number of invalid ballots] have not been borne out by experience re percentage being 1.22 only), although the new system appears to have been tter understood in some districts than in others.

#### THE BUCKLIN SYSTEM.

The majority preferential system used in Grand Junction (Colo.), pokane, Denver, Portland (Oreg.), Cleveland, and North Dakota, as proposed by Condorcet in 1793 as a system which, though correct, was the best he could think of in which the counting ould be easy. It is said to have been used for a time in Geneva, vitzerland. In recent times, however, it first came into promince on its adoption in 1909 by Grand Junction, Colo., under the

adership of the Hon. James W. Bucklin of that city.

Aside from certain unessential features of this system as thus far tually applied in America, which are discussed below, it differs om the Ware only in the rules of the count. The Ware rules escribe—if there is no majority of first choices—the dropping out the candidate lowest on the poll and the distribution of his ballots ly according to the second or the next highest available preference arked on them, then the dropping of the next lowest candidate in le same way, and so on until one candidate has a majority of the otes behind him. The Bucklin rules, on the other hand, prescribe there is no majority of first choices—the adding together of the st-choice and the second-choice votes for each candidate to see hether any candidate has a majority, counting both; next, if-no indidate has such a majority, it prescribes the adding together of the first-choice, second-choice, and third-choice votes for each candate to see whether any candidate has a majority, counting the ree grades of votes together; and so on until some candidate has hind him a majority, counting all the grades of votes thus far ken into account, when that candidate is declared elected.

## THE NANSON SYSTEM.

A majority preferential system that differs from the Ware and the Bucklin essentially only in the rules of the count was devised by Prof. E. J. Nanson of the University of Melbourne, Australia, and described by him in a paper read before the Royal Society of Victori in 1882 and reprinted in the Blue Book of the British Governmen designated "Miscellaneous No. 3, 1907." Under this system a firs choice is given more credit than a second throughout the entir count, a second more than a third; and so forth. Then, in accord ance with simple rules formulated by Prof. Nanson on the basis of complete mathematical solution of the problem, those candidate whose total credits show them to be unquestionably inferior to other candidates in the opinion of the voters as indicated on the ballot are successively dropped out as defeated until the candidate pro ferred to any other is left and declared elected. Following are con plete rules suitable for incorporation in legislation. The notes no printed in italics are not a part of the rules themselves.

#### NANSON SYSTEM RULES.

1. At the voting precincts transcribe on coordinate paper (ruled correspond with the spacing of the names of the candidates on the ballo the figures marked on the ballots by the voters, using a separate colum for each ballot and numbering both ballot and column with a distincti number in order to be able at any time to compare the original ball Send the record to the central electoral board, as order with its record.

by that board.

2. On the record, but not on the ballots, let the central electoral boa fill in all blank spaces with a figure found by dividing by two the su of the number of candidates and a number one higher than that inc cating the last preference marked on the ballot by the voter. [See p. 1. [This is merely finishing the voter's work by giving each unmark candidate the average to which all unmarked candidates are entitle It insures the counting of the ballot in the subsequent addition the disadvantage, and to the equal disadvantage, of the unmark candidates, just as the voter intended. Example: If there we seven candidates, the blank spaces on ballots showing only thr preferences would all be filled in with the number 5½; those on be lots showing four preferences, with the number 6; etc.]

3. Add the figures of each candidate.

4. Exclude as defeated every candidate whose total is equal to or me than the average. [This is reasonable because the voter used large figures to represent lower preferences.]

5. If more than two candidates remain, set down on record sheets f ures representing the preferences on all the ballots as among the candidates remaining. Add again, and again eliminate all candidates who total is equal to or more than the average.

6. Proceed again, if necessary, as prescribed in rule 5, until only t candidates remain. When only two remain, examine the record to which of those two was preferred to the other by the voters, and decle him elected.

7. If only one candidate remains after an elimination of candidates, eclare him elected.

NOTE.—The reader who wants to read only the most important parts of this aper will do well to skip everything between this point and the last paragraph of art I (p. 16), except the section entitled "The Condorcet Test Applied to the hree Systems" (p. 13).

OMPARISON OF THE THREE SYSTEMS OF COUNTING MAJORITY PREF-ERENTIAL BALLOTS.

Each of the three systems of majority preferential voting just escribed has its enthusiastic supporters in this country, and I am aclined to think that for a time each of them may have a place in the broad and varied field of our political life; but it is unnecessary at any blind struggle for supremacy should arise among them, for here can be no question in regard to the true nature of each in the aind of anybody who is willing to look at the facts and to give the

latter a little thought.

The Ware rules tend, just as does our present system of double ections, to bring the votes of persons belonging to the same party or roup together in support of some one candidate of that party or roup by the sacrifice of its other candidates. If, therefore, what wanted is a majority voting system that will encourage group blidarity, this system has much to be said for it. The ultimate crierion of the correctness of a majority system of voting, however, rould seem to be that clearly defined by Condorcet in 1785 in a pasage translated as follows:

There exists but one rigorous method of ascertaining the wish of a majority in an ection. It consists in taking a vote on the respective merits of all the candidates mpared two by two. This can be deduced from the lists upon which each elector is written their names in order of merit. \* \* \* But this method is very long.

Judged by this test, the Ware method (as also the Bucklin) is efective, for it may drop out a candidate preferred by a majority of ne voters to any other one of the candidates taken singly. uth of this is proved below (p. 14) in connection with 15 actual allots. It can also be seen from a still simpler example. Suppose nat in an election to elect one person from three candidates, Smith, rown, and Jones, 5,000 of the voters record first choices for Smith, 000 first choices for Brown, and 3,000 first choices for Jones. coording to the Ware rules, Jones is declared out of the running, and is ballots distributed according to second choices. Let us suppose 1at, as set forth in the result table below, 400 of the distributed votes o to Smith and 2,600 of them to Brown, and that Brown is therefore eclared elected with 6,600 votes (his original 4,000 plus the 2,600 eceived on the distribution of Jones's ballots). In that case the sult is wrong if, as we may suppose for the sake of revealing the llibility of the system, Jones is preferred to Brown by a sufficient umber, say 4,000, of those whose first choice was Smith. For in lat case no less than 7,000 of the voters (the 3,000 who gave first roice to Jones plus the 4,000 who gave first to Smith and second to ones) have clearly expressed on the ballots their preference of Jones,

Ocuvres de Condorcet, vol. XV, pp. 28, 29, edition of 1804.—It is precisely the comparison "two by o," said by Condorcet to be the ultimate test, though "very long," that the ingenious Nanson rules complish quickly.

the candidate dropped out by the Ware rules, to Brown. The 6,600 votes by which in this case Brown was declared to be elected, though a majority, were made up, it is to be borne in mind, of 4,000 voters who indicated on their ballots that they preferred Brown to either of the other candidates and of 2,600 voters who indicated not that they preferred Brown to Jones, but only that they preferred Brown It is doubtless true that the probabilities are against the elimination thus under the Ware rules of the candidate who, according to the record on the ballots, could command a clear majority of the votes against any other candidate taken singly; and the system is by no means to be condemned for political uses where a perfect majority preferential system cannot yet be adopted; but that it is not infallible in giving the result demanded by the criterion of Condorcet must be admitted.

	First choice.	Second choice.
Smith	5,000	500 on ballots marked for Brown as first choice. 400 on ballots marked for Jones as first choice.
Brown	4,000	1,000 on ballots marked for Smith as first choice. 2,600 on ballots marked for Jones as first choice.
Jones	3,000	4,000-on ballots marked for Smith as first choice. 3,500 on ballots marked for Brown as first choice.

The essential principle of the Bucklin system can be understoo from a brief analysis of the counting under this system of the sam 12,000 ballots we have just considered in connection with the War rules. Those ballots would be tabulated for the Bucklin count a follows:

	First choices.	Second choices.
Smith	5,000	900
Brown	4,000	, 3,600
Jones	3,000	7,500

With the votes cast thus an election board canvassing the return under the Bucklin rules would proceed, on finding that no candida had a majority of first choices, to add firsts and seconds together And on finding that both Brown and Jones had behind them a m jority, counting the votes of these two grades, the board wou declare elected that one of them who had most, namely Jones.

Now, what is the principle on which Jones is thus declared electe under the Bucklin rules? In other words, what is the nature of th majority which the Bucklin count gets together behind the candida

whom it elects?

To answer the question in connection with our example, the m jority of 10,500 votes that elects Jones under the Bucklin rules undoubtedly composed of 10,500 different persons, the system clear

reventing the counting into such a total of two choices voted by any ne voter; but it is composed of voters of three groups, (1) those who ave their first choice to Jones, (2) those who gave their first to Smith and their second to Jones, and (3) those who gave their first to Brown at their second to Jones; and these groups are united only in this ne respect, that they consider Jones to be one of the two best candiates for the office to be filled. The principle of the Bucklin system, hen, is that if no candidate is considered by a majority better than he field, the election goes to that candidate, if any, who is considered by a majority—or by the larger majority, in case there is more han one—to be one of the two best in the field; that if no candidate is onsidered by a majority one of the two best, the election goes to hat candidate, if any, who is considered by a majority—or by the argest majority if there is more than one—one of the three best in the field; etc.

This principle that underlies the Bucklin rules is not an altogether nreasonable one; but it is certainly not the correct one, for it requently elects a candidate other than the one who should be elected coording to the sound criterion of Condorcet. Suppose the 3,500 oters who gave Brown their first choice and Jones their second, nough they all greatly preferred Jones to Smith, had not recorded ny second choice. Then the result of the second count would have een, Smith 5,900, Brown 7,600, Jones 7,000; and in that case Brown stead of Jones would have been declared elected, under the Bucklin tles, in spite of the fact that, according to the record on the ballots, 000 of the voters (namely, the 3,000 who gave their first choice to ones and the 4,000 of Smith's supporters who gave their second

noice to Jones) clearly preferred Jones to Brown.

It may be argued that the failure of the Bucklin rules in this case due to the fact that Brown's supporters did not record on the ballots neir real will. The reply to that is twofold: In the first place, the ucklin rules do not in this case elect the candidate clearly prerred by a majority of voters, to any other in the field taken singly, cording to the ballots as cast; and perfect rules of counting would do ust that every time. In the second place it was nothing but the iles of the count that led Brown's supporters not to record their real ill fully on the ballot; and the fact that the rules would be likely to ave such an effect on the voters suggests a defect in them. This pint, however, the effect of the rules of counting on the voters, nould be considered not only in relation to the Bucklin system but so in relation to the other two systems we are analyzing.

#### . EFFECT OF THE DIFFERENT SYSTEMS ON THE VOTER.

Under the Ware rules the voter knows that his second or any lower noice that he may mark on the ballot cannot under any circumances lessen the chances of election of a candidate whom he marks higher in his scale of preferences. This is justly regarded by supporters of the Ware system as a strong argument in its favor. But ich persons ought not to forget, as they frequently do, that although nder the Ware rules it can never lessen the chances of the candidate ou actually mark as first choice to mark another candidate as second, yet, if you can foresee that your first choice cannot win and

that your second is in danger of being dropped out after the first count, it may seem best to you, under the Ware rules, to mark your first choice for the candidate who is really your second in order to help elect him against one or more others who will be strong rivals and whom you like still less. This can readily be seen in the case of the supposed election used above in illustrating the fallibility of the Ware count. If it were understood that the Ware rules were to be used in the count, many of the 4,000 voters who gave their first choice to Smith and their second to Jones, if they could forese that Smith would be beaten by either Brown or Jones, would find it advantageous to mark Jones instead of Smith as first choice, despite their real preference of Smith to Jones, in order that Jones, no being dropped out after the count of first choices, should be elected instead of Brown. And, of course, if the chances of Smith's own election had been considerably less than they were in the case supposed, it might have seemed so probable that the election must libetween Jones and Brown that to voters of the group mentioned the inducements to mark Jones as first choice, though in fact he

was not, might have been very strong.

The possibility, under the Bucklin rules, of injuring the chances of your first choice by marking a second has been mentioned above. It is equally true that, under the Bucklin rules, there is the possibility of injuring the chances of either your first choice or your second b And so forth. We have now to ask why this is so marking a third. It is so because on the second count, which will be taken if no candi date has a majority on the first count (of first choices), a voter' second choice will count equally with his first, so that in case a secon count has to be taken, the effect of a voter's marking a second choice completely to neutralize his first choice so far as those two candidates as concerned. Likewise, of course, the effect under the Bucklin rule of a voter's marking a third choice, in case a third count has to b taken, is completely to neutralize his first choice and his second s far as those three candidates are concerned. Whether, therefore in an election to be carried out under the Bucklin rules, it is wis for a voter to abstain from marking a second choice depends simply o whether it seems to him more important, all things considered, t help his second choice along with his first against all the rest or thelp his first choice against his second. This question, in turn, wi depend (1) on where the big gap in the gradation of his preference comes and (2) on which candidates he thinks the election probabl lies between. And whether or not, if it seems to him best to man a second choice, it will seem best to mark a third also, and so fortl depends on precisely similar considerations.

Under the Nanson rules no candidate is dropped out until it mathematically certain that he is not the strongest according a Condorcet's test; and a lower choice is not reckoned as equal to higher choice in any contingency; from first to last the gradation of each voter's preferences are preserved and given effect in the countrom these facts it might be inferred that under these rules it wou be impossible for a voter to help a candidate whom he wanted to ele in any other way than by indicating his real preferences on the ball as fully as possible. Yet that is not the case; though these rule unlike the Ware and the Bucklin rules, are infallible in their interpretation of the ballots as actually marked, they cannot prevent a vot

who is able to predict which candidate will be his favorite's strongest ival from helping his favorite against that rival by marking the latter as his last choice even though he may regard him as really his second. This possibility is the only point I have ever seen advanced as a supposed weakness of the Nanson rules. But is it really a weakness? I think not. It amounts simply to this, that a voter who feels sure that he can predict which candidate will prove to be his favorite's strongest rival has the privilege of taking the risk of injuring the chances of that supposed rival, against others still less desirable, in order to avoid helping that rival's chances against the candidate of the voter's first choice to the extent that he would by marking the ival as second choice under rules providing that under no circumstances can a second choice count equally with a first. And I see no grave objection to a voter's having this privilege. With the numper of candidates and the spontaneity of grouping that may be expected after the preferential ballot is adopted for majority voting, voters will probably seldom be able to predict the situation accurately nough to care to take the risk mentioned; and the possibility that occasionally some voters may take it does not seem likely to have iny harmful political effects.

Nothing short of experience can prove to just what extent each of he three sorts of rules for majority preferential voting will lead roters to mark their ballots otherwise than according to their real vill or to abstain from expressing their will fully. And nothing short of experience can prove just what harm, if any, will result from any uch effect that may be produced from any one of the sets of rules. venture, however, to express the opinion that in their effect on the narking of their ballots by the voters the Nanson rules will work out test, the Ware rules next best, and the Bucklin rules third best. In his ranking list our present system—the non-preferential ballot, tc.—would be, of course, in respect to the points considered in this

baragraph, a very bad fourth.

#### THE CONDORCET TEST APPLIED TO THE THREE SYSTEMS.

Suppose A, B, C, D, and E are candidates for a single office that to be filled by majority vote, and suppose the ballots cast in the lection, 15 in number, are marked as indicated below, where each ne of figures running up and down the page represents the prefernces of one of the 15 voters as expressed on his ballot:

$\mathbf{A}$	2	3	2	2		2			2	2	1		2	2	
$\mathbf{B}$	3		1	1	3	4	3			3	2	1		3	
$\mathbf{C}$															1
D	1	2	4	3	4	3	4	2	1	1.	3	2	3		2
$\mathbf{E}$															

An examination of these ballots will show the reader that if counted according to a non-preferential plurality system still prevalent in this country, C or E would be garded as the choice of the voters (though a new election would be necessary), the ote standing:

If the ballots were counted according to the Ware rules, candidates A, D, and E would e dropped one after another in that order, and C would win over B and be declared lected.

If the ballots were counted according to the Bucklin rules, A would be declared elected; for as no candidate has a majority of first choices, firsts and seconds would be added together, and A would win on the two together thus:

> B 4, C 5, D 7, A 9,

The election of either C, E, or A, however, would be defeating the real will of the voters, the ballots showing clearly that 10 of the 15 voters preferred D to C, that 8 of them preferred D to E, and that 9 of them preferred D to A.

Following is the record of the ballots according to the Nanson system, showing how the true will of the voters, the election of D, is ascertained by that system:

Record or transcript of the 15 ballots shown above.

[The figures in italies are those supplied to the record, in accordance with No. 2 of the Nanson rules printed on a preceding page to make the record of each ballot arithmetically complete.]

$\begin{array}{c} A \\ B \\ C \\ D \\ E \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 5 4	1 4 3	1 8	1 3 5 2 3 4	$\frac{1}{2}$	5	4	2 4 3	4 2	4 3	1 5	4=42 4=47 1=47 2=40 4=48 3
Divide	total b	y ni	umb	er o	f car	did	late	s,					5)225
Average	e is					•••			• • •	• • •		• • •	45

B, C, and E, being above the average, are eliminated, according to No. 4 of the

Nanson rules (p. 8).

On examining, in accordance with No. 6 of the Nanson rules, the record of all the votes to ascertain the preference of the voters between A and D, it appears that six prefer A to D and nine prefer D to A. D is therefore declared elected.

To test the accuracy of the Nanson method in this election, apply Condorcet's rule of a two-by-two comparison. On comparing D thus with each of the others singly, it

is seen that he defeated-

9 to 6, 8 to 7,  $\mathbf{B}$  $\mathbf{C}$ 10 to 5, and E 8 to 7.

D is, therefore, clearly entitled to win.

Fortunately the Nanson count can give nothing but such a correct result in any case, for it is simply a convenient formulation of a mathematical principle that covers all cases. Virtually, indeed, it makes the comparison of each candidate with every other one separately, thus rendering its verdict according to the "rigorous method" (see quotation from Condorcet on p. 9) which everybody must admit to be correct. It is, therefore, the ultimate system to which other systems must eventually yield, for deducing from preferential ballots the will of the majority.

# RELATIVE DIFFICULTY OF THE THREE COUNTS.

The work of the election officials, all told, is undoubtedly greater under the Ware system or the Nanson than under the Bucklin Under either of the former systems, however, the only work at the voting precincts in addition to that required under the non-preferential system is the numbering of each ballot and the column of the re turn sheet on which its preferences are to be entered and the copying of those preference numbers in the column. As the record sheets would be ruled to correspond with the spacing of the names on the ballot, so that the copying of the preference numbers in the right squares could be done quickly and correctly by men of average ability his extra work at the precincts is not a serious obstacle to the adoption of either the Ware or the Nanson system. It should be noticed hat the reading off of the figures called for by No. 5 of the Nanson ules can be done very rapidly if a line is drawn on the record sheets brough the figures credited to each of the candidates being excluded.

#### THE BEST FORM OF BALLOT.

The form of ballet customary under the Ware and the Nanson ystem is this:

Α	3
В	2
c	
D	1
Е	
F	
G	4

Of course, rotation of the names (see sec. 2 of the Hare rules in Part II), or any other method of arranging the names on the ballot airly, may be substituted for the alphabetical order indicated on the orm above. The use of numerals to indicate preferences—first for ), for example, second for B, etc., as on the form above—reduces he chances of error in marking the ballot and makes it possible for he voter to indicate as many preferences as he pleases in a single olumn which can conveniently be held close to the column on the ecord sheet on which the preference numbers are to be transcribed. The form of ballot customary under the Bucklin system is this:

	First choice.	Second choice.	Other choices.
Α			Z
В		X	
C			
D	Z		
Е			
F			
G			X

The reasons for the adoption of this form of ballot were, I think, wo: first, it made possible the designation of preferences by means I the X, to which our voters are accustomed; secondly, it was nought to be easier for the election officials to call off the different rders of preferences from the three separate columns than to call nem off from different numerals in a single column. These reasons are some weight; but they are greatly outweighed, in my opinion,

by the advantages of using in connection with the Bucklin system, where that system can not be supplanted by the Nanson system immediately, the ballot customary under the Ware and the Nanson

system.

In the first place, the column for "other choices" undiscriminated from each other leads to an error in the count that is altogether unnecessary and not easily defensible. For inevitably, if the preferences lower than the second are not distinguished from each other, the counting rules must provide, as in fact they do in most places where the Bucklin system is in use, that if no candidate has a majority of first choices or a majority counting firsts and seconds together, all the "other choices" to the credit of each candidate shall be added to his firsts and his seconds, and that the candidate who then has most votes of all grades together shall be declared elected. But it is certainly an error to add in fourth, fifth, and lower choices until it has been ascertained that no candidate has a majority of the voters behind him when only firsts, seconds, and thirds are taken into In other words the system is gravely inconsistent if it does not provide for a separate reckoning of the total for each candidate after the admission to the count of each lower order of preferences.

In the second place, the ballot of the single column, for the indication of preferences by numerals, gives the voter the opportunity of indicating as many preferences as he pleases without covering a wide sheet of paper with columns for crosses. And as we certainly ought to permit the voter, as soon as it is feasible to provide for it, to express his will on the ballot not only as exactly but as fully as he

wants to, this is an important point.

Finally, the ballot of the single column is the ballot we shall unquestionably want for our voting to make up representative bodies (see Part II of this paper), and it is unfortunate to have two forms of ballot in use when one will do. It is true that under two of the systems of voting for representatives explained in Part II crosses are used instead of figures; but that is only because under those systems one mark suffices. Under the Hare system, which is thought by the leading authorities to insure the truest results of all, the use of numerals for the indication of preferences is universal.

So much for systems of voting designed to range the majority of the voters against the minority, as when a decision is to be made ir respect to measures or in respect to officials, such as the chief administrators, who should be satisfactory to the majority. When, however, the object of voting is not to make a decision at all, but to make up a body fit to make them on behalf of all the voters—in other words, a representative or deliberative body—then majority voting even by an infallible system, is only one degree less absurd and less disastrous to democracy than plurality voting itself. Indeed, the advantage of using the best preferential majority system instead of the old system (of the unchangeable vote, the two elections, and the plurality rule) where a majority vote is called for, is trifling in comparison with the disadvantage of using such a majority system when the object of the voting is the election of a representative body. For when that is the object, the principles of democracy are grossly violated if the system of voting does not insure that no candidate can be elected to the body unless he is supported not merely by a majority but by approximately the whole of a constituency, so that the process of electing the body as a whole shall be simply a condensation of all the voters into their true leaders.

PART II.

# UNANIMOUS-CONSTITUENCY VOTING.

("PROPORTIONAL," OR TRUE, REPRESENTATION.)

The misrepresentation of the people in their "representative" bodies is unnecessary. It is due to the blunder, which will seem ridiculous to our children, of defining the constituency of each member by an arbitrary geographical line and then allowing a plurality—or a majority—of the voters within the designated area to elect the "representative." Such a method virtually disfranchises not only all who vote against the candidate elected, who frequently comprise from 40 to 60 per cent of the whole electorate, but also-to a less degree—those who voted for that candidate in the final election not because they preferred him to all others but only because they disliked him less than any of the others who had come through the primaries as officially recognized candidates. Thus our present system makes it certain that most of the ballot swill be thrown away if marked for the voter's first choice, thereby discouraging the expression of his real will on the ballot, and makes it probable that a large percentage of

the ballots will be utterly ineffective even as marked. How this crude single-member district or ward system works out in the make-up, for example, of a city council, may be tested by the returns of any city election. I will illustrate with the figures of the election of 16 councilmen by wards in Columbus, Ohio, on November 2, 1913. I take the figures of that city for no other reason than that I happened to be there the day after the election. In the election of the 16 ward councilmen the Democrats cast about 43 per cent of the votes, the Republicans about 40 per cent, the Socialists about 13 per cent, and others about 3 per cent. Now, it is easy to see that if the adherents of all these parties had happened to be distributed quite evenly throughout the 16 wards, the Democrats would have elected their man in every one. If, on the other hand, the distribution had been less favorable to the Democrats, they would have won fewer seats. If, for example, the Democrats had happened to be packed solidly into as few wards as possible, they would have filled less than half of them and could not have elected more than 8 of the ward councilmen. Finally, if the distribution of the voters had been as unfavorable as possible to the Democrats, the latter might not have elected a single one of the 16 councilmen. This is easily seen: if the Democrats had been distributed evenly throughout the 16 wards, and their opponents had not, they might have been defeated in 12 of the wards, for example, by the Republicans and in 4 of Whether, therefore, the Democratic ballots them by the Socialists. actually cast were to elect 16 ward councilmen, or 15, or 14, or 13, or 12, or 11, or 10, or 9, or 8, or 7, or 6, or 5, or 4, or 3, or 2, or 1, or none depended—and the same thing would have been true even if a perfect system of majority preferential voting had been in use—on nobody's opinion or will or vote, but only on blind chance-how the Democratic votes happened to be distributed geographically throughout the city—unless it depended on something still worse, the deliberate injustice

known as gerrymandering.

To get rid of this defect it is necessary only to substitute for the arbitrary geographical constituency of the ward system a constituency defined as enough voters anywhere in the city, unanimous in the support of a candidate, to deserve to send him in. In other words it is necessary only to define the constituency in terms of unanimity of will instead of in those of proximity of home.

The result of making this simple but extremely important change is commonly called "proportional representation." A name from some points of view better would be unanimous-constituency, or

true, representation.

It is easy to see that if each of the constituencies is unanimous in the desire to elect the candidate it does elect, and if the constituencies are approximately equal in size, the general result of the election must approximate the ideal of an election to make up a body that is to be entrusted with the power of making decisions on behalf of all. For that ideal, as I have already suggested, is simply the condensation, so to speak, of the many voters into the few leaders fit to represent them.

Here is an example of such condensation, the election of members of the Parliament of Tasmania, where the Hare system of

proportional representation explained below is in use:

ELECTION OF 1912.

	Votes.	Seats actually obtained.	Seats in proportion to votes.
Labor Non-labor	33, 634 40, 252	14	13.66

ELECTION OF 1913.

	Votes.	Seats actually obtained.	Seats in proportion to votes.
Labor	30,896	14	14.14
Non-labor	34,676	16	15.86

With such results compare those under our present crude system. The number of Socialist votes for Congressman in 1908, relatively to the number cast for Congressmen by other parties, entitled the party to several Members, but they gave it only one. In 1912 the party, though it doubled its vote, did not elect a single Congressman. In the momentous general elections of January, 1910, in Great Britain and Ireland, where the same single-member geographical constituency is in use—

there were 144 constituencies in which the successful member was returned by a majority of less than 500. Of these constituencies 69 seats were held by the Ministerialists [the Liberals, Irish Nationalists, and Labor Party men] and 75 by the Unionists [Conservatives]. The majorities were in some cases as low as 8, 10, and 14. The aggregate of the majorities in the Ministerialist constituencies amounted to 16,931, and had some 8,500 Liberals in these constituencies changed sides the Min-

isterialist majority of 124 might have been annihilated. On the other hand, the Unionists held 75 seats by an aggregate majority of 17,389, and had fortune favored the Ministerialists in these constituencies their majority would have been no less than 274. Such is the stability of the foundation on which the House of Commons rests, such the method to which we trust when it is necessary to consult the nation on grave national issues.<sup>1</sup>

Many well-meaning citizens, realizing that there is something—they have no clear idea what—wrong with the single-member district system of representation, have proposed to elect all the members of a city's council or "commission" at large together, and to allow each voter to vote for them all. Such a proposal, of course, means jumping from the frying pan into the fire. It means abandoning the only obviously good feature of the single-member district

or ward system—the constituency.

The simplest unanimous-constituency or proportional system for electing a representative body—say a city council of nine, or the nine Members of Congress elected from a district comprising a quarter of the population of Pennsylvania—is arrived at by providing merely that the Members shall be elected at large, that no voter shall vote for more than one, and that the nine candidates who receive most votes shall be elected. This is the system actually used for the election of the Japanese House of Representatives, Japan having endured only from 1889, the year of her constitution, until 1900 the district system that still hinders political and social progress in the United States.

Though the constituencies that elect Members under this system are all unanimous, they may be very unequal in size; the candidate who receives most votes may receive two or three times as many as the weakest one of the nine elected. This possibility naturally leads the parties to estimate carefully how many candidates they can elect by dividing their strength, as nearly equally as possible, among several; and to carry out such a program as this successfully it becomes necessary for the ordinary voter to cast his vote for one or another of his party's candidates according to advice from the party's headquarters. In spite of these obvious drawbacks this Japanese system is far better than the single-member district system and should be supported for the election of representative bodies in cases where the obstacles in the way of the adoption of the still better systems now to be described are really insuperable.

What is it that the Japanese system lacks? Simply the adequate or preferential ballot that is found so useful in majority voting, the ballot that permits the voter to express his will as fully as he wants to, so that it can be carried out in the count under almost any cir-

cumstances that may be found to have arisen.

One of the simplest systems of unanimous-constituency representation in which a sort of preferential ballot is used is that covered by the list-system provisions below. Its main features are these. Candidates are nominated—by petition, preferably—in lists. The several lists of candidates thus nominated are printed on the ballot under the headings, "List 1," "List 2," etc., no party names or emblems being necessary or desirable. You vote such a ballot by marking a cross against one name on one list. Such a cross means that your vote is to count one toward determining how many representatives the supporters of that list are to elect and that it is also to help up toward

<sup>1</sup>J. H. Humphreys: Proportional Representation, Methuen & Co., London, 1911, p. 27.

the top of that list the particular candidate marked. So if list 1, for example, gets about three-ninths of the total vote cast for representatives, it will be given three seats; and the particular candidates to receive those seats will be the three on the list who got most votes This ballot is really a preferential ballot, you see, though scarcely ever called by that name; for though the voter marks only one candidate, he thereby expresses also the desire to give his vote, if it cannot help the candidate marked, to such other candidate on the same list as it can help.

### A LIST SYSTEM OF PROPORTIONAL REPRESENTATION.

Nomination and election provisions.

## Revised January, 1914.

Section 1. Nomination of candidates for Representatives in Congress from each district shall be by petition, signed by electors, who have signed no other petition to nominate any candidate for Representative at the same election, to the number of ...... The petitions shall include the domicile addresses of the candidates. Each such petition may nominate as many persons, not nominated by any other petition, as there are seats to be filled from the district; but it may nominate as few persons as the petitioners wish. Each petition shall be signed, filed, and verified in the manner prescribed by law, shall contain the signed consent of each candidate, and shall be filed with the election authorities at least twenty days prior to the election. days prior to the election.

Sec. 2. The several lists of candidates—all the persons, whether one or more, nominated by one group of petitioners being considered one list—shall appear on the ballots, without party names or emblems, in an order determined by lot by the election authorities. The names and domicile addresses of the candidates on each list shall be printed on the

ballot in the alphabetical order of the surnames.

Sec. 3. The form of the ballot shall be substantially as shown below.

#### [Form of ballot.]

#### FOR REPRESENTATIVES IN CONGRESS.

Mark a cross (x) opposite the name of one candidate only for whom you want to vote. (If the candidate you vote for is found to be elected without your vote, or if he is found to have too few votes to be elected with it, your vote will be counted for some other candidate on the same list.)

Do not mark more than one name. If you spoil this ballot, tear it across once, return it to the election officer in charge of the ballots, and get another from him.

List 1.	List 2.	List 3.
A [Domicile address]	[Domicile address]	D [Domicile address]
B	G	L"
O	H	M
P	J	N
S	K	Q" "
т		U
V		
Y		

\* The squares for the voter's cross would be at the right of the names, of course, in States in which custom

\*The squares for the voter's cross would be at the right of the names, of course, in States in which custom would require such a change.

1 See the footnote on p. 26 in connection with nominations under the Hare system of proportional representation. The suggestion made there is equally applicable to the list system, though, of course, the minimum of votes required should be, under a list system, a minimum for a list instead of a minimum for a particular candidate, and the number of the minimum should be about a third of the number of votes by which each member will probably be elected.

Sec. 4. The total number of valid ballots for Representative in Congress cast in the district shall be divided by the number of Representatives to be elected from the district,

and the quotient shall be the "quota."

Sec. 5. The total number of full quotas contained in the total number of valid ballots cast in the district for the candidates of a list shall be the number of candidates on said list

to be declared elected on the first assignment of seats.

Sec. 6. After this first assignment of seats, the remaining seats, if any, shall be assigned as follows: The number of valid ballots for the condidates of each list shall be divided by the number of seats, plus one, already assigned to such list, and to the list showing the largest quotient shall be assigned one additional seat. This procedure shall be repeated until the number of seats assigned shall be that to which the district is entitled.\(^1\)

Sec. 7. The candidates to be declared elected from any list shall be those individually receiving the largest received.

ecciving the largest number of votes.

Sec. 8. A ballot marked for names on more than one list shall be set aside as invalid.

4 ballot marked for more than one name on one list, but not for names on more than one ist, shall be counted as a vote for the list but shall not be counted in determining the tanding on that list of particular candidates.

Sec. 9. To any vacancy that shall occur, otherwise than by the operation of the recall, n the delegation of Representatives in Congress from a district, the ...... [here name he proper election authorities] shall appoint, to fill out the unexpired term, that candidate from the list on which the vacating Representative was nominated who, of all the undertaken and district are side to that list are sixed most votes. [Here add moving for filling the lected candidates on that list, received most votes. [Here add provisions for filling the acancy in case the provision in this section fails.]

Three modification of these provisions should be mentioned. The first is adding a square for the voter's cross in connection with he title of each list, thus:

> ☐ List 1. ☐ List 2. ☐ List 3.

'his addition is permissible. If it is made, the "Directions to voters" hould be changed to read thus:

Mark a cross (X) opposite the title of one of the lists of candidates. lark also, if you have any preference among the candidates on the st you mark, the name of one candidate only on that list.

A ballot is spoiled on which two lists are marked, or on which a list and candidate not on it are both marked. If you spoil, etc. If this addion is made to the list system provisions above, the wording of those rovisions should, of course, be changed slightly to conform to the orm of ballot used. A ballot marked for one individual candidate ut not separately for any list's title should be regarded as valid and s exactly equivalent to a ballot on which the title of the candidate's st is also marked.

The second modification that should be mentioned is the substituon of party names for the titles, "List 1," "List 2," etc. Though I o not personally favor this modification, there is nothing in the rstem of election itself to prevent making it. If it is made, however, the simple provisions for nominating candidates covered by section 1 lust be supplanted by far more elaborate provisions, such as legally gulated primaries, to guard against the giving of a party name to a st of candidates that has not a good right to it.

The third modification is changing section 6 to read thus: After is first assignment of seats, the remaining seats, if any, shall be asgned to the lists showing the largest remainders of votes after the first This provision is at least as fair as the other, and simpler. he provision in the text of the rules, which is essentially the same as at used in Belgium, favors the lists that receive most votes.

The reasons for these provisions are explained on p. 22 in connection with a concrete illustration. e provisions are essentially the same as those governing the assignment of seats to lists in the system of opportional representation used for parliamentary elections in Belgium. See the alternative form of this tion explained below as the "third modification" to be considered.

is doubtless something to be said for favoring the largest parties or groups thus, but there is also much to be said—in my personal opinion more—for the simpler rule, which is as favorable to small parties as to large ones.

Consider how these rules would work out in a concrete case. Suppose the eastern district of Pennsylvania, which is to elect 9 of the 36 Members of the House of Representatives elected by the State,

polls valid votes as follows:

1 Comment	List 1.	
7 1 1 A		40,000
Candidate B		60,000
Candidate O		4,000
Candidate Q		52,000
Candidate P		1, 200
Candidate S		
Candidate T		30,000
O 1.1-1-WI		00,00
Candidate Y		,
		197, 440
	List 2.	
Candidate C	21000 %	10,000
Candidate C		4,000
Candidate G	,	6, 900
Candidate H		·
Candidate J		24, 002
Candidate K		
		85, 122
	List 3.	
Candidate D		20,000
Candidate D Candidate L		. 10,000
Candidate L		. 22,004
Candidate M		. 40,850
Candidate N		,
Candidate Q		. /
Candidate U		,
		155,470

The ballots being marked as shown by these figures, the total vot of the district would be 438,032. The quota would be that number

divided by 9, which is  $48,670\frac{2}{9}$ .

As that last number is fully contained in the vote of the first lie four times, that list is given four seats on the first assignment. four candidates on the first list to receive these seats are (1) Cand date B, (2) Candidate P, (3) Candidate A, and (4) Candidate V.

As the quota is fully contained once in the vote of the second lis that list is given one seat on the first assignment, the candida

receiving it being Candidate J.

As the quota is fully contained three times in the vote of the thin list, that list is given three seats on the first assignment, the cand

dates receiving them being Candidates Q, N, and M.

Applying now the rule of section 6 above, we find that dividing 197,440 by 5 gives us 39,488; dividing 85,122 by 2 gives us 42,56 and dividing 155,470 by 4 gives us 38,867½. We therefore assign the ninth seat to the second list, the candidate receiving it being Cand Applying the alterative form of section 6 suggested abov we assign the ninth seat to the second list because it shows the large remainder after the subtraction of full quotas for the seats alread In this case the two rules would give the same result, b in many cases they would not.

The second of these two rules for the filling of seats not filled by t first assignment explains itself. The first of them may seem merc rbitrary. In fact, however, the first rule, though not, in my personal pinion, so fair as the second one, is based on a principle. iple is that each seat remaining unassigned after the first assignient on full quotas shall be assigned to the list which, if it is assigned ne additional seat in question, will have behind each of its members

ne largest part of a full quota.

Compare the errors of this election with those of an election of epresentatives under our present single-member district system. Inder the latter the error involved in the election of a Member often mounts, as we have seen, to from 40 to 60 per cent of all the voters a constituency, and it would often amount to nearly 50 per cent of nem even if a majority preferential system were substituted for our sual system of pluralities and primaries. In the election we have camined, on the other hand, the error, in the case of the election of ch Member, is only the difference between the number of votes nat elect him and a full quota. In the case of candidates B, P, A, nd V, for example, the error is the difference between 49,360 (the umber of times that 4 goes into 197,440) and 48,6702, which is the In the case of candidates J and K the error is the differace between 42,561 (the number of times that 2 goes into 85,122) and 3,6702, the full quota. In the case of candidates Q, N, and M the ror is the difference between  $51,823\frac{1}{3}$  (the number of times that 3 pes into 155,470) and  $48,670\frac{2}{9}$ , the full quota.

It should be noticed that every Member elected by this system is ected by a constituency that may fairly be called unanimous. te case of candidate V. It is true, of course, that many of the 42,561 tes by which candidate V is elected were cast by voters who prefred one of the other candidates, B, P, O, S, T, or Y. Yet every de of those voters indicated, by marking candidates in the first list ter reading the "Directions to voters" at the top of the ballot, that wanted to help elect some other candidate in that list if his vote culd not be effective for the particular candidate he marked. nay be objected that the list itself did not precisely suit every one of te voters who decided to vote for some candidate on it. tie, but it must at least have suited nearly every politically intelligent ter who supported it, for otherwise the unsatisfied would have tken advantage of the opportunity, easily afforded them by section lof the election provisions, to nominate one or more other lists. lithin the limits of the flexibility of so simple a list system, therefore, te constituency electing candidate V-and the same may be said of ey of the eight others elected-may be said to be unanimous.

The proportional system set forth above provides, therefore, a pans by which at a single election the voters of a large district can I'm almost perfectly unanimous constituencies, each one of which entains approximately the same number of voters that there would t in an entire single-member district under our present system. Uder such a system, therefore, the delegation of nine Members of Coness from the eastern district of Pennsylvania would represent the vters of that part of the State almost perfectly; and as the same would b true also of the three other large districts of the State and of all the e arged districts of the other States, the House of Representatives as avhole would represent almost perfectly the voters of the Nation.

With various modifications, the list system of unanimous-constituncy or proportional representation is in use for the election of the Parliaments of Belgium, Sweden, and Finland, for that of the councils of about half the Cantons or States of Switzerland, and for that of town councils in Sweden, Switzerland, and elsewhere. Its adoption for parliamentary elections in France has already been voted by the Chamber of Deputies more than once, and it is expected to pass the Senate in the near future. President Poincaré and ex-Premier Briand are among the supporters of the reform.

Besides the list system, two other systems of unanimous-constituency or proportional representation deserve special attention in this

country at the present time.

One of these, which is sometimes called the "single transferable vote" but is best called, from the name of its chief originator, the Hard system, is in use for the election of the Parliament of Tasmania, the municipal councils of Denmark, the Upper House of Denmark, and the Parliament of the Union of South Africa. The same system has been incorporated in the "Home rule" bill for the election of al members of the Senate and 31 members of the House proposed for Ireland. I say the "same system" though the details of the provi sions by which proportional representation is to be carried out in Ireland are to be prescribed, according to the bill, by the "King is There is no doubt, since the Hare system is the only on strongly supported in the United Kingdom, that the "King in Coun The clause of the bil cil" will not think of prescribing any other. prescribing proportional representation for the Senate passed the House of Commons on October 31, 1912, unanimously; that prescribing the system for the House of Ireland passed the same bod on January 7, 1913, by a vote of 311 to 81. These votes were th natural result of the agitation that has been carried on in Grea Britain for many years under the leadership of such men as Joh Stuart Mill, Lord Courtney of Penwith, Lord Avebury (better know to Americans as Sir John Lubbock), Earl Grey (recently Governor General of Canada), and Mr. John H. Humphreys.

The Hare system differs from the list system in that the names candidates, instead of being nominated and arranged on the ballot i lists, are nominated singly and are arranged on the ballot in alphbetical order (with or without rotation of names) or in any other order considered fair. It differs from the list system also in that the voter, instead of marking one candidate on one list with the unde standing that if his vote cannot help elect the particular candida marked it will help some other on the same list, indicates his ov personal preferences—as many or as few as he pleases—by the figures 1, 2, 3, etc. Finally, of course, it differs from the list syste in the rules of the count, which must be adapted to the form The dominating principle of the Hare rules is that ear ballot is to be counted for the voter's highest preference (as indicat by the figures on the ballot) whom under the circumstances it can hel

The advantage of the Hare system over the list is that it gives t individual voter the opportunity of having his vote count only accordance with his own personal preferences, whereas the list syste requires him to help a ready-made list when he helps one candida The disadvantages of the Hare system, as compared with t

<sup>&</sup>lt;sup>1</sup> In the case of the Upper House of Denmark and the Senate of South Africa the system is applied not the voting at the polls but to that of the electoral colleges by which the two bodies mentioned are elected in Tasmania and in the municipal elections of Denmark the system is applied to popular elections.

st system or with the schedule system soon to be explained, are 1) that it practically requires the bringing together for the compleon of the count of all the ballots cast for the election of the several epresentatives in question; (2) that the count is harder to explain and longer to carry out, and (3) that, unless the rules of the count are laborated a good deal, small elements of chance remain involved them which, though of trifling practical importance, are pereptible to critics and are sure to rouse opposition on the part both f those who seek some flaw to peck at and of those who, not under-anding the system thoroughly, honestly think the elements of

nance in its count seriously objectionable.

Hare ballot rules suitable for certain uses in this country, notably or the election of city councils under the admirable city manager lan of government, are printed below. It will be noticed that "Alternative Form A" means ction 11 is given in alternative form. ss work for the counters at the central bureau, but the retention the count of an element of chance that can be eliminated. "Altertive Form B" eliminates this element of chance absolutely; it es it by the simple device adopted by the mother who, having three ually beloved children and three very unequal apples, cut the big ple, the middle-sized apple, and the mean little apple each into ree pieces and gave to each of the children one piece of each apple. may be asked why, since such a mathematically perfect device in be adopted to get rid of the chance in Form A, that alternave of the rule is offered at all. The reason is that Form A is enough mpler than the other to make a difference in respect to the adoption the system in some cases, and the objections to it are not really rious. Ask yourself-whether the voters whose ballots are left, under orm A, to elect their first choice are treated fairly. Then ask your-If whether those whose ballots are taken, under Form A, each to lp elect the next preference marked on it who can be helped by it, re treated fairly. And no other voters are concerned. pssible, of course, that distributing one group of a thousand Illots instead of another might make a difference between the ection of one candidate and the election of another; but even if it d so, the group of members elected would in any case be truly presentative of the voters who elected them, and there would be no fore unfairness involved than there is in certain other features of an ectoral system, for example the choice of Tuesday rather than Wed-Isday as election day.

# HARE SYSTEM OF PROPORTIONAL REPRESENTATION.

Nomination and election provisions.

[Phrased suitably for a State law covering an optional charter plan for the municipalities of the State.]

Revised January, 1914.

Section 1. Nominations of candidates for the council shall be by petition, signed by elect(who have signed no other petition to nominate a candidate for the council at the same
extion) to the number, in municipalities of not more than ten thousand inhabitants, of
the per cent of the number of electors who voted at the last preceding regular municipal
extion; to the number, in municipalities of more than ten thousand but not more than
tenty-five thousand inhabitants, of two per cent of the number of electors who voted at
telest preceding regular municipal election; and to the number, in municipalities of more
to twenty-five thousand inhabitants, of one and a half per cent of the number of electors
to voted at the last preceding regular municipal election: Provided, however, That in
nease shall the number required be more than two hundred.

Each such petition shall be signed, filed, and verified in the manner prescribed by law, shall contain the signed consent of the candidate, and shall be filed with the election authorities at least thirty days prior to the election.1

Sec. 2. The ballots used in all elections provided for in this act shall be without part The names of candidates on such ballots shall be printed in marks or designations.

rotation,2 as follows:

The ballots shall be printed in as many series as there are candidates for the council The whole number of ballots to be printed shall be divided by the number of series, and th

quotient so obtained shall be the number of ballots in each series.

In printing the first series of ballots the names of candidates for the council shall be arranged in alphabetical order. After printing the first series, the first name in the list of candidates shall be placed last in such list and the next series printed, and the process shall be so repeated until each name in the list of candidates shall have been printed first an equal number of times. The ballots so printed shall then be combined in tablets, so as to have the fewest possible ballots having the same order of names printed thereon together in the same tablet. The ballots shall in all other respects conform as nearly as may be to the ballot prescribed by the general election laws of the State. prescribed by the general election laws of the State.

The form of the ballot shall be as follows:

#### [Form of ballot.] 3

### FOR REPRESENTATIVES IN THE COUNCIL.

DIRECTIONS TO VOTERS: Put the figure 1 opposite the name of your first choice for the council. If you want to express also second, third, and other preferences, do so by putting the figure 2 opposite the name of your second choice, the figure 3 opposite the name of your third choice, and so on. You may express thus as many preferences as you please. This ballot will not be counted for your second choice unless it is found that it cannot help your first; it will not be counted for your third choice unless it is found that it cannot help either your first or your second; etc. The more choices you express, the more likely you are to make your ballot count for one of the candidates you favor.

A ballot is spoiled if the figure 1 is put opposite more than one

A ballot is spoiled if the figure 1 is put opposite more than one

If you spoil this ballot, tear it across once, return it to the elec-tion officer in charge of the ballots, and get another from him.

#### CANDIDATES FOR THE COUNCIL.

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These conditions for nominating candidates may be modified, if it is thought best, by reducing so what the number of signatures required and requiring the deposit in connection with each nomination small amount of money, to be returned to the depositor if the nominee in question receives in the electic reasonable number, say about a quarter of a quota, of first-choice votes and votes transferred from surply put together

put together.

2 Of course these provisions for rotation of the names on the ballots are not an essential part of the word in the part of the part of

in States where custom would require such a change.

Sec. 3. The numerals thus marked on the ballot shall be understood to mean that the ter wishes his vote to be effective in the election of his highest preference possible under the les, a candidate whose name is marked with a smaller number being always preferred to re whose name is marked with a larger number and the latter to one whose name is not arked at all, and that he desires his ballot, in case it appears on any count that it is not eded by, or cannot under the rules be effective in the election of, that candidate for whom has been or would be counted, to be transferred to another candidate in accordance with

s preferences marked thereon.

Sec. 4. The ballots shall first be sorted and counted at the several voting precincts accordg to the first choices of the voters. The valid ballots so cast for each candidate shall be rted into two groups, that of valid ballots on which the voter's second choice is clearly dicated and that of valid ballots on which his second choice is not clearly indicated. Each ch group shall be tied up by itself and properly marked on the outside, and the two for each ndidate shall then be tied up in one bundle which shall also be properly marked on the tside. All the bundles thus made up at a precinct, together with the invalid ballots and record of all the ballots cast at the precinct, showing the number of invalid ballots, the umber of valid ballots, the total number of first-choice ballots for each candidate, and the umber of ballots in each of the two groups of first-choice ballots received by each candidate, all be forwarded to the board of deputy State supervisors of elections or the board of outy State supervisors and inspectors of elections, as directed by that board, and the funting of the ballots shall proceed under its direction.

Sec. 5. First-choice votes for each candidate shall be added and tabulated as the first count. Sec. 6. The whole number of valid ballots shall then be divided by a number greater by one in the number of seats to be filled. The next whole number larger than the quotient thus

tained shall be the quota or constituency.2

Sec. 7. All candidates the number of whose votes on the first count is equal to or greater

In the quota shall then be declared elected.

Sec. 8. All votes obtained by any candidate in excess of the quota shall be termed the

Plus of that candidate.
Sec. 9. The surpluses shall be transferred, successively in order of size from the largest to smallest, each ballot of the surplus being transferred to and added to the votes of that thinuing candidate for whom a preference is indicated on it. [If section 11 is adopted Form B, change the last clause of section 9 to read thus: the votes of the surplus ing transferred to and added to the votes of continuing candidates, according to the highest wilable preferences indicated on the ballots capable of transfer, as prescribed in section 11.] Sec. 10. "Ballots capable of transfer" means ballots from which the preference of the ver for some continuing candidate can be clearly ascertained. "Continuing candidates" ans candidates who have not been declared elected or defeated.

Sec. 11. Alternative Form A. The particular ballots to be taken for transfer as the surus of any candidate shall be those that come to hand indiscriminately, without selection, m such of his ballots as are capable of transfer, and the order in which those ballots sell severally be transferred shall be that in which they happen to come, without selection. I the ballots not so transferred as surplus shall be set aside as effective in the election of

 $sh\ candidate.$ 

Alternative Form B. In transferring the surplus of any candidate, all the ballots capable cransfer that were cast for him as first choice shall be transferred, each ballot being reckoned this purpose, however, only as such fractional part of a vote as is required to make the tal number of whole votes transferred that number—except as reduced by the disregard ractions prescribed in this section below—which was available for transfer. In crediting ves thus transferred from the surplus of any candidate to any other candidate who may rive them, fractional parts of a vote shall not be counted.3

In some States the proper officials would have some other title. The alternative title given would be able for Ohio.

In some States the proper officials would have some other time. The alternative time given would be sable for Ohio.

Po see that section 6 accords with common sense one has only to consider that in any whole number of vesthere cannot be more than one group larger than half of the whole number, or more than two groups a larger than a third of the whole number, or more than nine groups each larger than a tenth of the wile number, etc.

Example: Suppose the quota is 10,001 votes, and Candidate A gets 20,027 first-choice votes, of which 180 are capable of transfer. Then, since Candidate A needs 10,001 votes to make up his own quota, he als, in addition to the 47 ballots cast for him that were not capable of transfer, 9,954 of the 19,980 votes resented by the 19,980 ballots capable of transfer. Therefore only 10,026 votes are available for transfer there candidates, and in the transferring of the 19,980 ballots each of those ballots must be reckoned as 1,1932 of a whole vote. So when it is found that Candidate M, for example, receives 500 of the 19,980 tusferred ballots, he ought to be credited with only 250 11698 votes, for that is 1298 of 500. And as the provides for the neglect of fractions in crediting votes, Candidate M is credited with 250 votes simply, he use of such fractions has to be resorted to, of course, only for a single multiplication in connection with the of the candidates who receives a batch of ballots on the transfer of a surplus. As this part of the countil apparent complexity of the transfer of surplus votes according to Form B of Section 11 should not be didered a serious objection to the adoption of the rule in that form. The transferring of votes thus so difficulties in practice, according to the highest official evidence from Tasmania. (See testing ty of John M'Call, Agent-General of Tasmania, before the British Royal Commission in 1909—British Be Book "Cd. 5352," 1910, especially ¶3029.)

Sec. 12. After the transfer of all surpluses, the votes standing to the credit of each can

didate shall be counted and tabulated as the second count.

Sec. 13. After the tabulation of the second count (or after that of the first count if no can didate received a surplus on the first) the candidate lowest on the poll as it then stands shall be declared defeated and all his ballots capable of transfer shall be transferred to the continuing candidates, each ballot being transferred to the credit of that continuing candidate preferred by the voter. After the transfer of these ballots a fresh count and tabulation shall be made. In this macron candidates shall be successively declared defeated, and their ballots In this manner candidates shall be successively declared defeated, and their ballot capable of transfer transferred to continuing candidates, and a fresh count and tabulation made. After any tabulation the candidate to be declared defeated shall be the one the lowest on the poll.

Sec. 14. Whenever in the transfer of a surplus or of the ballots of a defeated candida the votes of any candidate shall equal the quota, he shall immediately be declared elected.

and no further transfer to him shall be made.

Sec. 15. When candidates to the number of the seats to be filled have been declared elected all other candidates shall be declared defeated and the count shall be at an end; and whe the number of continuing candidates shall be reduced to the number of scats to be filled, tho candidates shall be declared elected and the count shall be at an end; and in this case to ballots of the last candidate defeated need not be transferred.

Sec. 16. If at any count two or more candidates at the bottom of the poll have the san number of votes, that candidate shall first be declared defeated who was lowest at the ne preceding count at which their votes were different. Should it happen that the votes these candidates are equal to each other on all counts, they shall be declared defeated successful.

sively from the younger to the older.1.

Sec. 17. No ballot shall be counted in such a way as to make it effective in the election

of more than one candidate.

Sec. 18. On each tabulation a count shall be kept of those ballots which have not be used in the election of some candidate and which are not capable of transfer, under the desi-

nation "Nontransferable ballots."

Sec. 19. On each tabulation a count shall be kept of the invalid ballots; but no ball shall be declared invalid except one on which the first choice of the voter cannot be clear ascertained. A ballot marked with a cross opposite one name but with no other mark shall be declared. be treated exactly as if it had been marked with the figure 1 opposite the same name but w

Sec. 20. Every ballot that is transferred from one candidate to another shall be stamp or marked so that its entire course from candidate to candidate throughout the count can conveniently traced. In case a recount of the ballots is made, every ballot shall be me to take in the recount the same course that it took in the first count unless there is a covered a mistake that requires its taking a different course, in which case such miste shall be corrected and any changes made in the course taken by ballots that may be required as a result of such correction. The particular ballots the course of which is to be changed as a result of such correction. in the recount as a result of such corrections shall be taken as they happen to come, withi selection.

Sec. 21. So far as may be consistent with good order and with convenience in the count and transferring of the ballots, the public, representatives of the press, and especially candidates themselves shall be afforded every facility for being present and witness

these operations.

The third of the three systems of unanimous-constituency voti for the make-up of representative bodies that seems to me to serve special attention in this country at the present time is the Go or schedule system, which was devised independently by William Gove, Esq., of Salem, Mass., and Archibald E. Dobbs, Esq., of Ireland

Under this plan the candidates' names are printed on the ballot is single column, as under the Hare. But under this plan each candide really stands for a whole list, the distinguishing feature of the pl being that every ballot that cannot help elect the candidate whom it was cast—either because he has enough without it or because he is hopelessly out of the running even with it—is to be counted help one of the other candidates in accordance with a list or sched of preferences handed in to the electoral officials by the candid himself and duly published several days before the election.

<sup>1</sup> For the last 12 words of section 16 may be substituted the following, if they are preferred: "lots be drawn to decide which candidate shall next be declared defeated." The words in the text of the are in accordance with a reasonable practice embodied in the legislation of some countries.

Among the differences between the schedule plan and the list an are these:

(1) The former lends itself to the Australian form of ballot, whereas

le latter lends itself to the party-list form of ballot.

(2) The former offers the voter many lists, a different one for ch candidate, without making the ballot physically cumbersome, hereas the latter either restricts the voter to his choice among a w lists or makes the ballot cumbersome. Neither plan, of course, akes the ballot "long" in the political sense of that word; for, plitically, a ballot is "long" that is hard to vote so as to make the pter's will effective, and a ballot is "short" that is easy to vote so to produce that result; and it is very easy for the voter to vote as to make his will—or what, at least, closely approximates to his recise will (see remarks on the Hare plan just below)—effective ith either a schedule-plan or a list-plan ballot.

(3) The schedule plan allows a candidate's name to be on more

an one list, whereas the list plan does not.

The significant differences between the schedule plan and the Hare in be stated briefly. The schedule plan, like the list, does not offer to voter the same opportunity that the Hare does to make his vote cunt only in accordance with his own personal list of preferences. Ince any limitation whatever of the voter's power to make his ballot cunt exactly in accordance with his own will is at least a slight triation of democracy at the fountain head, this is a matter of some apportance. The schedule plan, however, like the list again, is far appler to explain than the Hare, does not require the bringing gether of the ballots from the precincts for the completion of the cunt, and adapts itself to our custom of voting simply by making cross against one name. For many uses, notably where the territial area of the election is very wide, as in the case of the election. State legislators, Congressmen, or presidential electors, these factical advantages of the schedule and the list plan are important.

The principal provisions that should be included in a bill providing

te schedule plan for the election of a representative body are:

1. Nomination by petition (if not provided for by existing laws), with domicile address of each nominee and with or without provisins for a deposit as explained in a footnote above in connection with

etion 1 of the Hare rules.

2. Permission—it should not be a requirement—for each nominee tille within a specified time the names, arranged in an order of reference, of one or more of the other nominees to whom votes cast a first-choice votes for himself are to be transferred in case they can the help him because, according to the rules of the count, he has eough to be elected without them or so few as to be out of the runing with them.

Requirement that no such list is valid unless accompanied by the s ned assent, on the part of each nominee whose name appears in it, the presence of his name on the list in the position in which it

nds.

3. Specifications in regard to the publication of the lists before the ction.

1. Specifications in regard to the quota or constituency that entles a candidate to election, like those of section 6 of the Hare provious in this paper.

5. Rules in regard to the distribution of the surpluses (of vote received directly by any candidates), one after another in order of size to the other nominees, according to the preferential list, if any handed in by the nominee furnishing the surplus.

6. Provisions similar to those of sections 12, 13, 14, 15, 16, 17, 18

19, and 21 of the Hare rules.

One modification of this system, affecting sections 2 and 5, deserve If it is thought best, the requirement that the names on list shall be in a definite order of preference (see section 2) may be omitted, in which case the order in which the candidates on a list shall be preferred in the transfer of votes (see section 5), shall t that of their strength as indicated by the number of votes receive by them directly. This modification is thought by some propo-tionalists to be an improvement. Though it gives the voter le definite knowledge than the other provision does in regard to ho his vote will be transferred in case it cannot be used to help the car didate of his first choice, it has some advantages that will sugge themselves readily to every reader.

# TO WHAT ELECTIONS SHOULD PROPORTIONAL SYSTEMS BE APPLIED

Some proportional or unanimous-constituency system should applied to the election of every body whose chief function is deliberate and to make important decisions or appointments behalf of those who elect it. This includes city councils under the Federal plan and the city manager—sometimes called the commission manager—plan of government. It does not include the commissi under the Des Moines plan, because under that plan the admin trative functions of the commissioners are more important than th representative functions. It includes both chambers of our Sta legislatures so long as two chambers are elected at all. As soc however, as one chamber is made truly representative of the ent body of voters of the State, the second chamber will doubtless be do away with. It includes the House of Representatives of the Unit It includes the National Electoral College. It includes standing committees of our representative bodies. It includes boa of education and other such public boards until the powers of st boards are given over to the truly representative legislatures city councils and their purely administrative duties are given over professional administrators. It includes representative committed of clubs, college and school classes, and private organizations g erally.

Where in these cases the difficulties of explaining the system counting the ballots are not insurmountable obstacles, the Hare syst is to be preferred to the list or the schedule. There is no reason v the Hare should not be used for many purposes, including the elect of some of our city councils. Wherever, however, it seems necess to have recourse to a system easier to explain and providing an ea count, the list or the schedule is to be recommended with confide that either of them will work admirably and give us a representa body that really represents. For the election of Members of Cong and members of the Electoral College the list system, the simples all to explain and to introduce, seems especially suitable. In nection with the Electoral College it may be added that if the system explained in this paper, without party names or emblems or

allot, were adopted for the election of the group of presidential electors assigned to each of the States, not only would the division of the ollege between the several parties be much fairer than it has been itherto, but the need of a vast primary system to decide what candiate has the right to be called the candidate of any party would be holly obviated. It is to be hoped, therefore, that it may be possible get such a system for the election of presidential electors adopted the States generally before we undertake the big task of putting in peration a direct primary system—which the greater and more easily troduced reform proposed would make superfluous—for the nomination of party candidates for the Presidency.

### TRUE REPRESENTATION AND EFFICIENCY.

A point of the greatest importance in connection with the introiction of a unanimous-constituency system of representation, which
ill simply condense the voters into a body made up of the true
aders of all shades of opinion and interest, is that it opens the way
r taking all the chief administrative offices off the ballot altogether,
ind for filling them by majority preferential vote of the representave body itself. Provide that such administrative officials shall hold
fice indefinitely during the pleasure of the representative body,
at each representative shall affirm, as a condition of taking his seat,
at in voting for the selection or the retention of such an official he
ill be guided only by considerations of fitness for the work after
orough investigation, and you have the most democratic method
at discovered for having the purely administrative work of govern-

ent done efficiently.

Though the brilliant work of the National Short Ballot Organizaon has brought this principle to our attention recently under a new time, there is really nothing new in the principle itself. The efficient cief administrator of an English city, the city clerk, is selected by the cuncil to serve indefinitely during its pleasure. The efficient chief lministrators of Prussian cities, the bürgermeisters, are selected and stained in office in the same way. And there is nothing undemocratic bout it; that is democratic which gives actual effect to the people's ll-not that which pretends to, but doesn't. The people's real Il is to have their business done economically and well; and as they low that they are not in a position to select administrators at the lls so well as their representatives can select them by giving the latter thorough-going attention, they greatly prefer, as soon as their es are opened to perceive the mockery of democracy now known the "long ballot," to let their representatives select these officials, d then to hold the representatives strictly accountable for the Now the unanimous-constituency system of representation, insuring the election of a representative body fit to make selecns, between men as well as between measures, on behalf of allsbject, I should personally hope, to the operation of the initiative, erendum, and recall (the last named as explained below)—opens way for the attainment of efficiency without the sacrifice of a or a tittle of democracy.

For majority preferential voting in a representative body no other system than the Nanson need be widered.

# PROPORTIONAL REPRESENTATION AND THE RECALL.

Hitherto the recall has been applied only to officials elected by plurality or majority system. For officials elected thus the method of applying the recall hitherto in use is perfectly reasonable. representative elected under a proportional or unanimous-constitu ency system, however, the method of applying the recall should b quite different. A representative elected under such a system hold his seat by virtue of the unanimous support of a body of voter numerous enough to have a right to fill one of the seats regardless c the possible opposition of every other voter in the district. To pro vide, therefore, that a representative holding his seat on such a bas could be ousted from it at any time by a mere majority of the voter of the district would be absurd. But the way out of the difficulty simple: provide that when a sufficient number of voters of the distriction demand it—a multi-membered district, of course, as that is the sir qua non of proportional representation—a recall election shall be held under the proportional rules governing regular elections, for all th representatives of the district. The result of such an election will I that every member for the district who still has a "quota" or co stituency behind him will get his seat again, and any member wl does not will lose his seat.

One other point in this connection should be covered. There is 1 need of providing that officials holding office at the pleasure of t representative body shall be subject to the recall at all. Because if it is time to recall such an official it is time to hold recall elections covering the entire membership of the representative body itself, for that body should be held absolutely responsible for

official whom it has the power to replace at pleasure.

These are the principles that should govern the relations betwe proportional representation and the recall. In actual practic however, it will be found that the use of the recall in connection wi representative bodies elected by good systems of proportional rep sentation will scarcely ever be resorted to.

### CONCLUSION.

To sum up a few of the points covered by this article, there is place at all, in a plan of government suited to modern conditions, either primary elections or plurality voting. When the object of voting is to make a selection among more than two candidates one non-representative office or to make a decision among m than two measures or policies, the voting should be done by one the majority preferential systems explained in the first part of t article, preferably by the Nanson system where the counting of ballots by that system would not be seriously inconvenient. the object of the voting is to make up a selection-making or decisi making body—that is, a deliberative, representative, legislative, poli determining body—the voting should be done by a unanimous-c stituency or proportional system, such as the Hare, the list, or schedule. In majority preferential voting the voter should be allow to express his will on the ballot as fully as he pleases; and the wil the majority should be interpreted, as soon as it is feasible to s plant the systems already in use, by the infallible system of Nans

unanimous-constituency voting the voter should be allowed to press his full will not only as fully as he pleases but as exactly as is sible; in other words the Hare system should be preferred to the or the schedule except where simplicity of counting is required. e marking of majority ballots should in all cases be by the figures 2, 3, etc.; that of unanimous-constituency ballots by the same thod under the Hare system, by a simple cross under the list or schedule system. A representative body elected by a system uring true representation should be given the power to select and retain in office indefinitely during its pleasure chief administrative cials of professional experience and attainments.

Finally, to add one point, as bodies supposed to be representative made truly representative and the selection and retention of the lef administrators is given into their hands, so that the majority ring called for in the selection or retention of such officials is transfed from the polls to the representative chamber, majority voting gradually disappear from elections at the polls and the majority ring done in the representative chamber will be by the Nanson

tem.

Effective voting, the leading principles of which as applied to herican conditions have been explained in this paper, is the indisable basis of the mechanism of democracy demanded by the needs the present and the coming age.

Secretary of the American Proportional Representation League.

LAVERFORD, PA.

